CIA HISTORICAL REVIEW PROGRAM POR 1891 RELEASE AS SANITIZED 1993

MEMORANDUM FOR: Assistant Chief of Staff, Intelligence,

Department of the Army

ATTRETTON:

Combat Intelligence/Development Division,

Research and Bevalopment Branch

SUBJECT:

Estimated Costs of Selected Soviet Units

Please find attached the information requested by in

Research Analysis Corporation in con-

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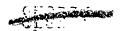
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Assistant Mirector

Enclosure: Estimated Costs of Selected Soviet Burkes-to-Surface Hissile and Mocket Units



SECTION

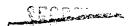
Estimated Costs of Selected Soviet Surface-to-Surface Hissile and Rocket Units

1. Missile Units

Estimates of initial investment and samual operating costs for Soviet 65-1, 55-2, and 85-1, and 85-4 missile units are presented in this section. Given the uncertainty surrounding the characteristics and the tables of organization and equipment and costs of these Soviet missile units, these estimates should be considered little more than general approximations of the Soviet costs.

The two categories represented, initial investment costs and samual operating casts, differ in important respects from the categories as generally used in vespons systems analysis. The missile costs emulate the cost of verbeads and include only the number of missiles required for the basic load of the given unit. There is no allowance either for missiles used up in initial or emusal training or for missiles assigned to stockpiles. For the 65-1, and 65-2 the basic unit is a battalion; for the 65-1 and 65-2 the basic unit is a battalion; for the 65-1 and 65-2 the basic unit is a battalion; for the 65-1 and 65-2 the basic unit is a battalion; for the 65-1 and 65-2 the basic unit is a result of central made to account for costs accuring to the basic units as a result of central support activities in those echolous immediately behind the basic units as well as army-wide command and support functions.

The estimates of the costs of the various missile systems follow:



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	88-1 Bn	89-2 Bn	88-3 Launcher	83-4 Launcher
Manpower - basic unit plus central support area	250	500	250	25 0
Launcher per unit	6	2	1	1
Missiles per unit	54	6	3	3
Initial Investment (Million 1955 Rubles)				
Missiles s/	24C	6c	3C	3C
Gther	25.4	20.6	16.0	16.0
Annual Operating Costs (Million 1955 Rubles)	7.8	10.0	5.8	` 5.8

a. C represents the unit cost of missiles (exclusive of warhead) at a given level of cumulative production (X) in one plant. The general formula for calculating C is $C = K (1-n) / X^n$ where K = unit cost of first missile, K = cumulative production of missiles produced in a given plant, and n = slope of the cumulative average unit cost curve. For the missiles in question the unit costs in thousands of 1955 rubles are

68-1
$$C = (5076) (.7655) / x.2345$$

68-2 $C = (10,800) (.7655) / x.2345$
68-3 $C = (12,420) (.7655) / x.2345$
68-4 $C = (16,200) (.7655) / x.2345$

2. FROG Units

At this time, the information required for estimating the costs of FROG-3 and FROG-4 is not available in the appropriate detail. For aggregative purposes the production estimates of these two types of rockets is combined and an average price of 56,000 1955 rubbes per rocket is applied.